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• Admitted in TX only  
•• Admitted in CT only  
••• Passed Patent Bar Exam

IPW

July 15, 2004

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Re: U.S. Patent Application No.: 10/609,218  
For: METHODS OF PREVENTING IMMUNE-MEDIATED ABORTION BY  
INHIBITING A CD28-MEDIATED COSTIMULATORY SIGNAL  
Inventors: Ling, Vincent, *et al.*  
Filed: June 27, 2003  
Our Ref. No.: GNN-010CPDV

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Information Disclosure Statement;
2. PTO Form 1449;
3. A Return Postcard.

No additional costs are believed to be due in connection with the filing of this Information Disclosure Statement. However, please charge any necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a duplicate of this sheet is attached.

I hereby certify that this correspondence is deposited with the United States Postal Service as first class mail in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450:

July 15, 2004

Date

Megan E. Williams, Esq. Reg. No. 43,270

Respectfully submitted,  
LAHIVE & COCKFIELD, LLP

Megan E. Williams.  
Registration No. 43,270  
Attorney for Applicants



Docket No.: GNN-010CPDV

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Vincent Ling, *et al.*

Application No.: 10/609,218

Confirmation No.: 7566

Filed: June 27, 2003

Art Unit: 1641

For: METHODS OF PREVENTING IMMUNE-MEDIATED ABORTION BY INHIBITING A CD28-MEDIATED COSTIMULATORY SIGNAL

Examiner: Not Yet Assigned

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

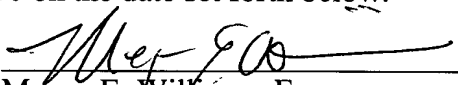
**Certificate of First Class Mailing (37 CFR §1.8(a))**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on the date set forth below.

July 15, 2004

Date of Signature and of Mail Deposit

By:

  
Megan E. Williams, Esq.  
Registration No. 43,270  
Attorney for Applicants

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Dear Sir:

Applicants and their Attorney are aware of the following patents, publications or other information, which are cited on the attached PTO Form 1449, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration.

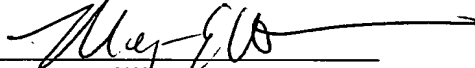
The present application is a Divisional Application of U.S. Serial No. 09/628129, filed July 28, 2000 (Atty. Docket No. GNN-010CP). All references listed on the enclosed PTO Form 1449 have been previously cited by or submitted to the Office in the prior application, and, in accordance with 37 CFR §1.98(d), copies of these references are not enclosed herewith, but will be provided upon request.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited publications.

Under 37 CFR § 1.97(b)(3), no additional costs are believed to be due in connection with the filing of this disclosure. If, however, a first Office Action on the merits issues in this application bearing a mailing date prior to the date of this Information Disclosure Statement, please charge the appropriate fee as required under 37 CFR §1.17(p) to our Deposit Order Account No. 12-0080.

Dated: July 15, 2004

Respectfully submitted,

By 

Megan E. Williams

Registration No.: 43,270

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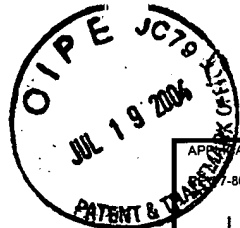
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APPLICANT FACSIMILE OF FORM PTO-1449 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO <b>GNN-010CPDV</b>	SERIAL NO. <b>10/609218</b>
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT <b>Ling, V. et al.</b>	
		FILING DATE <b>June 27, 2003</b>	GROUP <b>1641</b>

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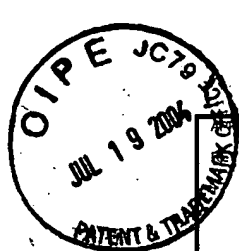
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	5,434,131	07/95	Linsley et al.	514	2	
	A2	6,338,851	01/02	Gorzynski			
	A3	6,090,914	07/00	Linsley et al.			
	A4	5,726,044	03/98	Lo et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	A5	EP 711829	09/94	EPO				
	A6	EP 716148	09/94	EPO				
	A7	EP 814154	12/97	EPO				
	A8	WO 98/38216	09/98	PCT				

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A10	Bermas <i>et al.</i> , 1997, "Proliferative response to recall antigens are associated with pregnancy outcome in women with a history of recurrent spontaneous abortion," <i>J. Clin. Invest.</i> , 100(6):1330-1334		
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A13	Bonney <i>et al.</i> 1997, "The maternal immune system's interaction with circulating fetal cells," <i>J. Immunol.</i> 158:40-47		
A14	Boriello <i>et al.</i> 1997, "MRC OX-2 defines a novel T cell costimulatory pathway", <i>J. of Immunol.</i> , Vol 158; 10:4548-4554.		
A15	Chaouat <i>et al.</i> , 1990 "Control of fetal survival in CBA x DBA/2 mice by lymphokine therapy," <i>J. Reprod. Fertil.</i> , 89:447-58		
A16	Chaouat <i>et al.</i> , 1995, "IL-10 prevents naturally occurring fetal loss in the CBAXDBA/2 mating combination, and local defect in IL-10 production in this abortion-prone combination is corrected by in vivo injection of IFN- $\gamma$ ," <i>J. Immunol.</i> , 154:4261-4268		
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			



APPLICANT FACSIMILE OF FORM PTO-1449 7-80		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO <b>GNN-010CPDV</b>	SERIAL NO. <b>10/609218</b>
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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
B1	EP 984023	03/00	EPO		

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B12	GenBank Accession Number U90270 for mus musculus CTLA-4 mRNA, partial cds
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B14	Hakim, F.T. <i>et al.</i> , 1995, "Acute graft-versus-host reaction can be aborted by blockade of costimulatory molecules," <i>J. Immunol.</i> 155(4):1757-66
B15	Herrera-Gonzalez <i>et al.</i> , 1993 "Fetal-maternal immune interaction: blocking antibody and survival of the fetus," <i>Dev. Comp. Immunol.</i> , 17:1-18

Examiner

Date Considered

\*EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO <b>GNN-010CPDV</b>	SERIAL NO. <b>10/609218</b>
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C2	Hutloff, A. et al., 1999, "ICOS is an inducible T-cell co-stimulator structurally and functionally related to CD28," <i>Nature</i> , 397:263-266
C3	Kaufman, K.A. et al. 1999, "The CTLA-4 gene is expressed in placental fibroblasts," <i>Mol. Hum. Reprod.</i> , 5(1):84-87
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C14	Riseau et al., 1995 "Vasculogenesis," <i>Ann. Rev. Cell Dev. Biol.</i> , 11:73-91
C15	Romagnani 1996 "Th1 and Th2 in human diseases," <i>Clin. Immunol. Immunopathol.</i> , 80(3 part 1):225-235

Examiner

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D3	Seino et al. 1995 "CD86 (B70/B7-2) on endothelial cells co-stimulates allogeneic CD4+ T cells," <i>Int. Immunol.</i> 7:1331-7
D4	Taipale et al 1997 "Growth factors in the extracellular matrix," <i>FASEB J.</i> 1997 11(1):51-9
D5	Tsai, A.F. et al. 1997, "Transmission disequilibrium of maternal CTLA-4 microsatellite alleles in recurrent spontaneous abortion (RSA)," <i>American J. Human Genetics</i> 61(4 suppl):A20
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D7	Van Gool et al., 1996 "CD80, CD86 and CD40 provide accessory signals in a multiple-step T-cell activation model," <i>Immunol. Reviews</i> 153:47-83
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D9	Wei et al. 1996, "Long term expression of human growth hormone (hGH) in mice containing allogeneic yolk sac cell derived neovascular implants expressing hGH," <i>Stem Cells</i> , 14(2):232-238
D10	Zhang et al. 1993 "The correlation of prolonged survival of maternal skin grafts with the presence of naturally transferred maternal T cells," <i>Transplantation</i> , 56:918-21
D11	Zimmerman, C. et al., 1997 "Antiviral immune responses in CTLA4 transgenic mice," <i>J. Virology</i> , 71(3):1802-7
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